

ABSTRACT

A receiver for a wireless local area network, WLAN, having a low power listening mode of operation. The receiver includes two separate paths in the analog front end, AFE. One path includes a low resolution and low power analog to digital converter, ADC. The other path includes a high resolution and high power ADC. In listen mode, only the low resolution ADC is powered and provides inputs to a packet detector for identifying a barker code. When the correct barker code is received, the high resolution ADC is enabled and coupled to a receiver for receiving a payload in the data packet.